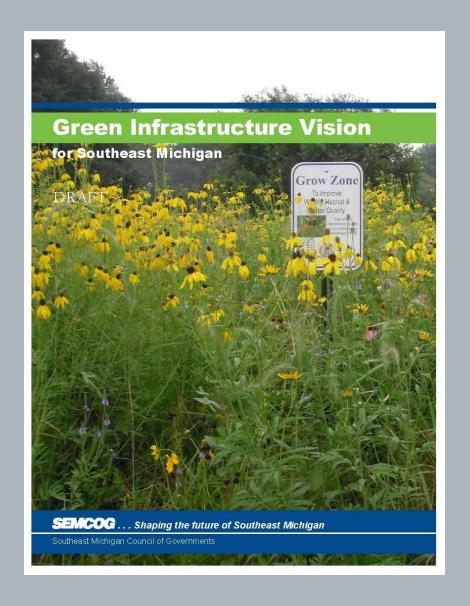


## Building on Regional Green Infrastructure Partnerships



### Regional Projects

- Green Infrastructure Vision for Southeast Michigan
- Saginaw Bay Greenways
- Greening Mid-Michigan
- Planning with Green Infrastructure in Northwest Michigan
- INtegrated Valuation of Ecosystem Services Tool (INVEST) in West Michigan
- Growing Greener in Southwest Michigan



Regional land use data to benchmark existing GI

Vision sessions and public polling to learn what the region wants

Regional policies for achieving vision

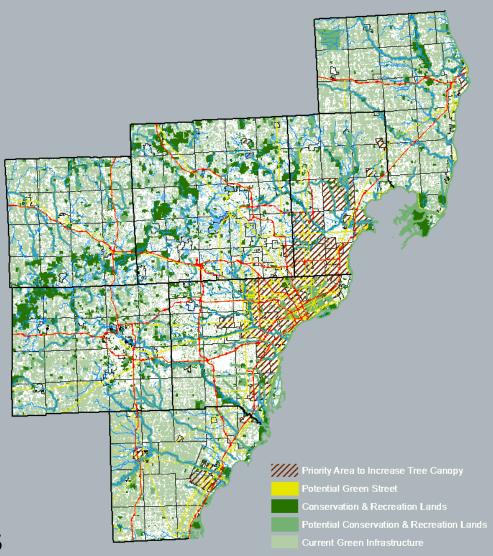
#### Policy Priorities

Increasing tree canopy

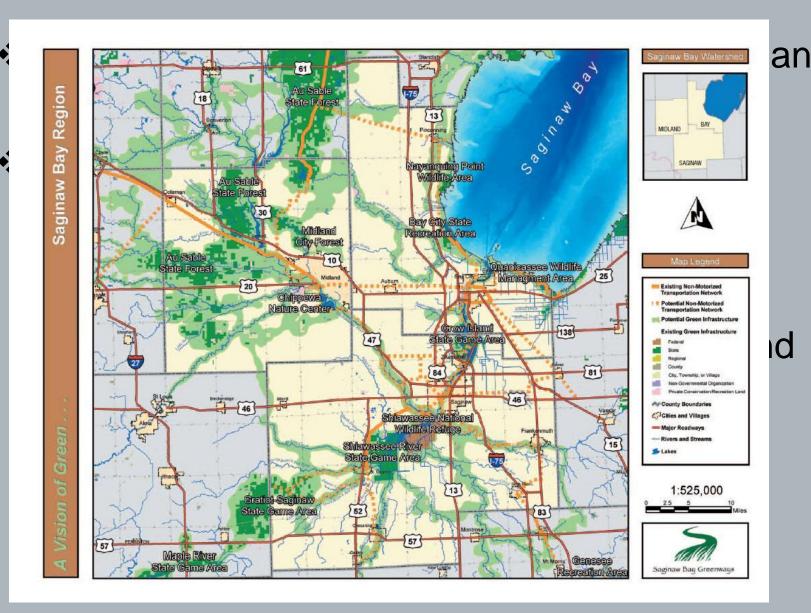
Using GI on publicly owned properties, roads & parking lots

Using vacant lots to increase connectivity and provide buffers

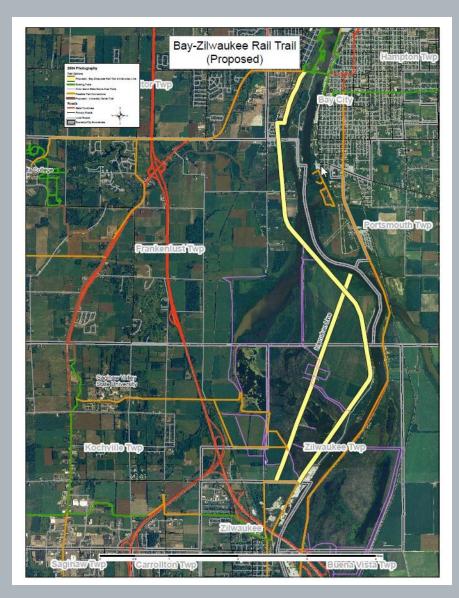
Educating local officials



## Saginaw Bay Greenways



## Saginaw Bay Greenways

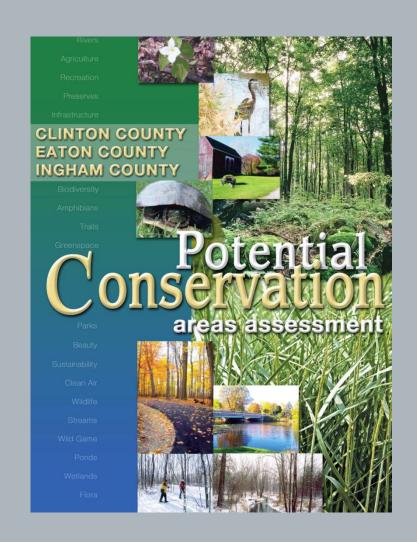


Overlay for regional nonmotorized transportation route

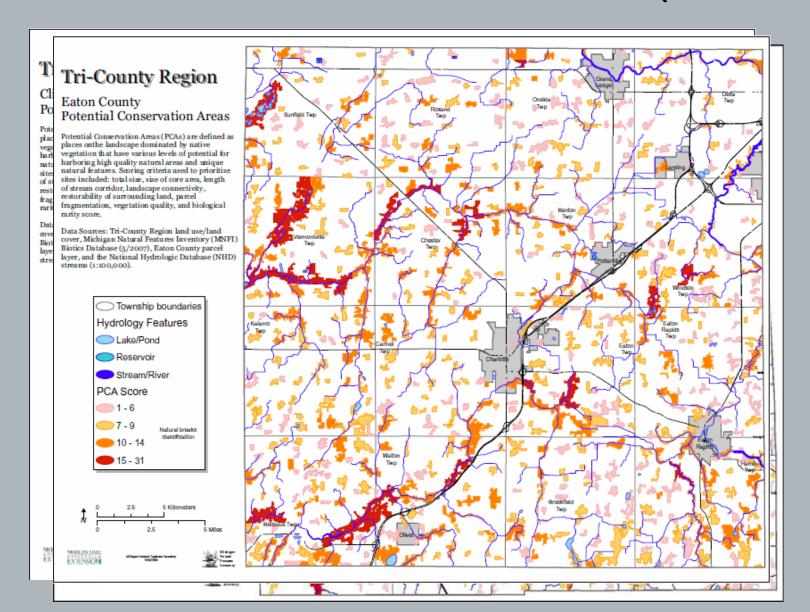
Implementation by Great Lakes Bay Regional Trail Organization

### Greening Mid-Michigan

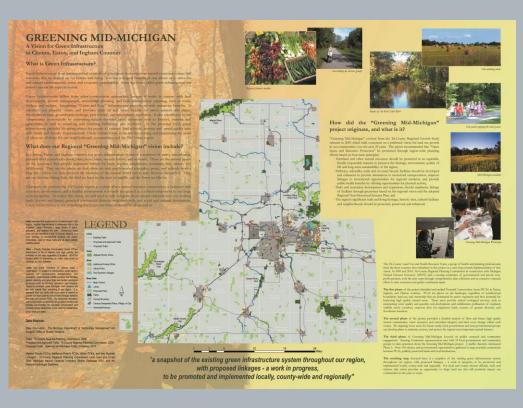
- Collaboration
   between Tri-County
   Regional Planning
   Commission, Eaton
   Conservation District
   & Michigan Trails and
   Greenways Alliance
- Developed scoring system to identify and rank areas for conservation efforts



### PCAs Recommendations (MNFI)



### Use as Planning Tool



Master Plan integration

Link to existing greenways

Local water quality plan integration

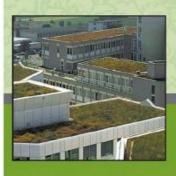
- GI implementation resource to assist local governments
- New Designs for Growth Guidebook based on 10 tenets of Smart Growth

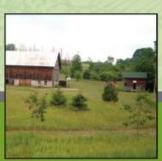
Implementation and outreach led by NWMCOG

#### New Designs for Growth

#### Planning with Green Infrastructure

An Implementation Resource of the New Designs for Growth Guidebook







Let Our Resources Work For You.



Visit the Web site: www.newdesignsforgrowth.org

DOCKET MANAGED CONCORDED

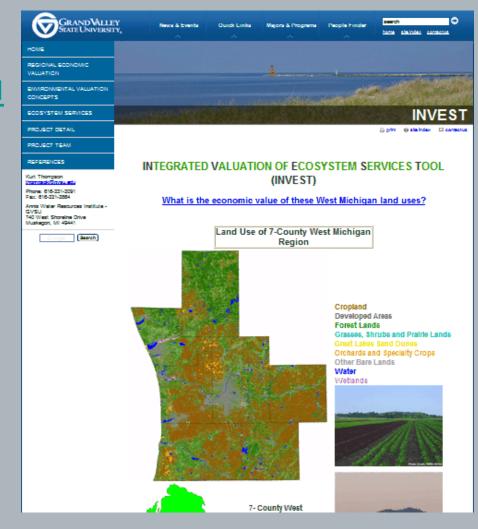
www.nwm.org

#### INVEST

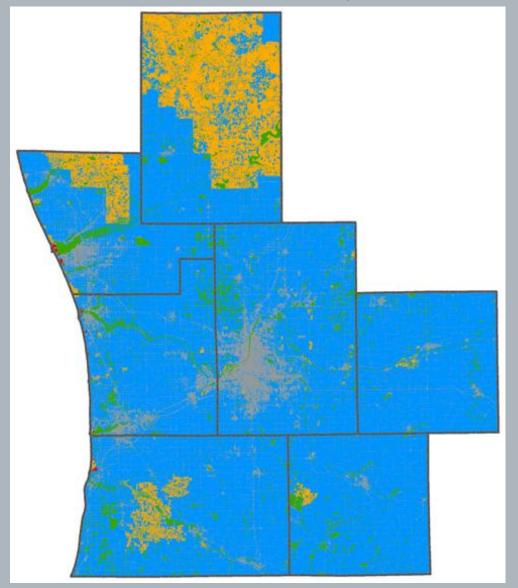
Online educational tool
<a href="http://INVEST.wri.gvsu.edu">http://INVEST.wri.gvsu.edu</a>

Places monetary value on ecosystem services associated with West Michigan land uses

\$ per acre/mile per year



### Regional Value Estimate for Ecosystem Services



# \$1.8 billion per year

#### Legend

Red: > \$10,000\*

• Orange: \$2,001 - \$10,000\*

Green: \$201 - \$2,000\*

Blue: \$0 - \$200\*

Grey: Developed Area/Not

Valued

#### **Valuations**

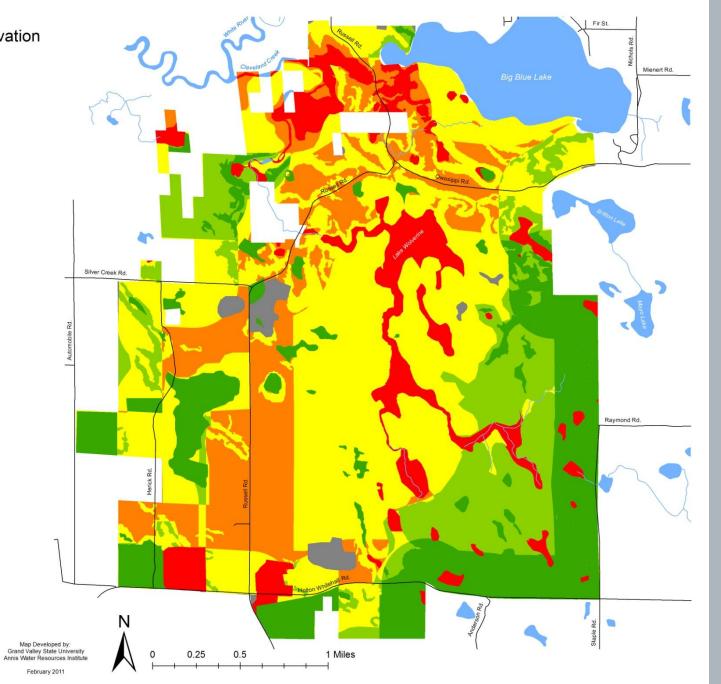
Owasippe Scout Reservation

#### Legend

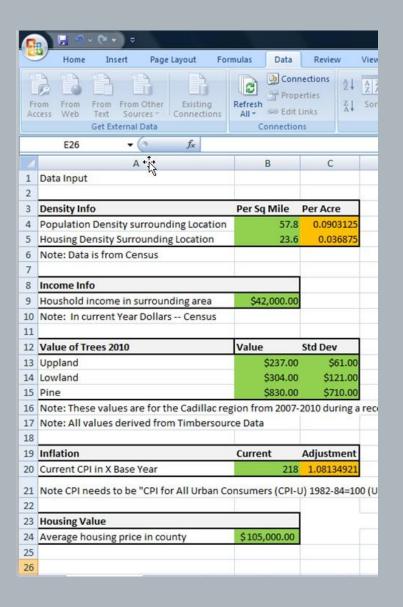
#### **Dollars Per Acre Per Year**

Developed lands not valued





#### **Ecosystem Services Calculator Tool**



Current Value:
\$582,526 per year

Developed Value:
\$183,196 per year

❖Public Land/Access Value: \$1,450,383 per year

# Growing Greener in SW Michigan

- Multi-jurisdictional (3county) initiative
- Creating a vision of GI
- Based on science and public input





#### Challenges to Implementation

- Regional projects still need local implementation
- Regional data may not be specific enough at local level

- Lack of or limited funding
- Loss of momentum
  - Loss of project leadership
  - Changes in community leadership

#### Successful Projects

- Green Streets in Southeast Michigan
  - Oakland County Campus
  - Great Lakes Green Streets Guidebook

- Collaborative Stormwater Management in West Michigan
  - Plaster Creek Watershed
  - Rogue River Watershed
  - City of Grand Rapids



Oakland County, MI

# Oakland County Campus: Background



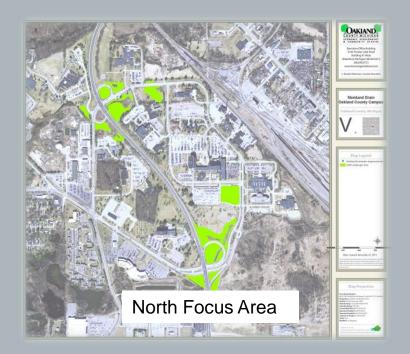


#### **County Campus Opportunity:**

- 260 acres actively managed
- 100 acres irrigated
- 5 miles of road

#### **County Campus Issues:**

- Ponding Water Soggy Turfless Areas
- Road Runoff
- Large unused mowed areas



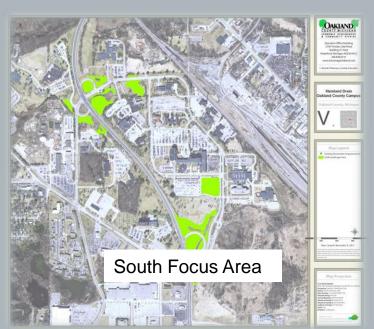
# Project Design

#### **Identified:**

15 individual native plant grow zones areas...

About 16 acres...

Areas that receive a majority of the county campus adjacent roadway runoff...



# Project Pictures



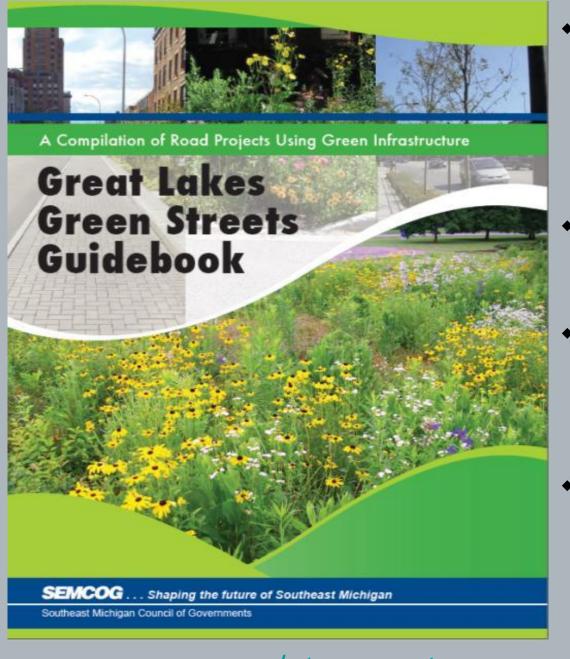
Oakland County, MI

#### **Project Outcomes**



Oakland County, MI

- Oakland County
   Planning &
   Economic
   Development
   Services
- Oakland County Facilities Management



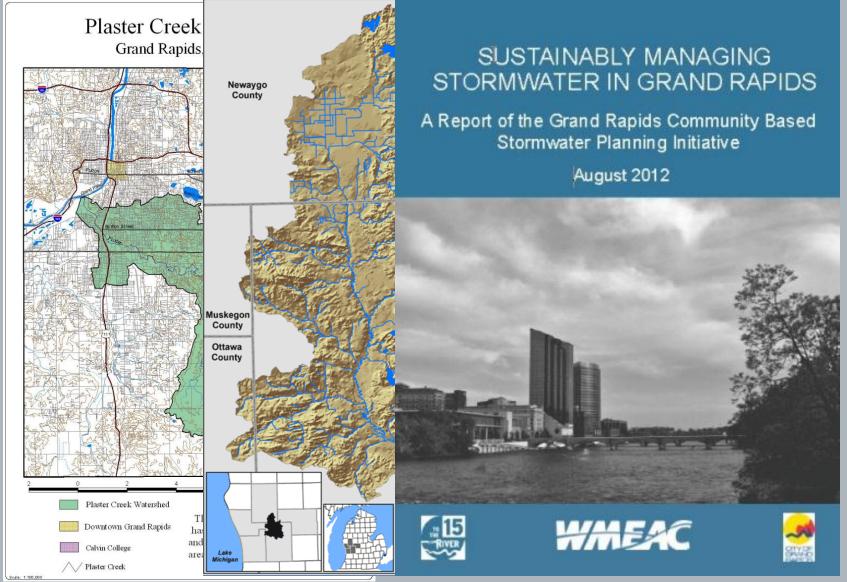
26 GI case studies in Great Lakes watershed

- Types of GI
- Barriers to implementation

Importance of planning for stormwater management

www.semcog.org/stormwater.aspx

Collaborative Stormwater Management in West Michigan



### Plaster Creek 319 Project









**Kent Conservation District** 

Center for Environmental Study (CES)

#### Plaster Creek Watershed

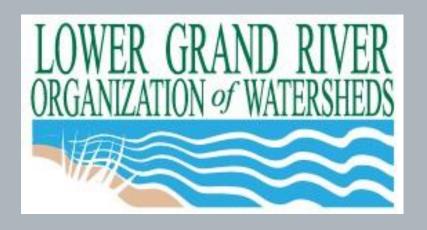
- Most polluted tributary to the Grand River
- Restoration and LID implementation
- Education of watershed residents
- Planning Commissions and municipal boards
  - Master Plan and zoning ordinance review
  - Stormwater Advisory
     Committees





### Rogue River Watershed Stormwater Guidebook Project







**AEB Community Planning Services** 

#### Rogue River Watershed



Development of Stormwater Guidebook

- Education of local planners and municipal officials
- Survey data analysis

#### Grand Rapids Stormwater Management





#### WMEAC/GR Ongoing-Partnership

- Community-Based Stormwater Initiative
- ❖ 15 to River
- Rain Barrel Program
- Sustainable Streets Taskforce
- Stormwater Asset Management Plan
- 2013 Flood Sandbag Volunteers
- Stormwater Oversight Commission
- Sustaining Stormwater Investments





# Sustaining Grand Rapid's Stormwater Investments

- Incentivizing LID
- Best Practices in Stormwater Management Opt-Out Systems Using LID
- Altering Local Codes and Ordinances in Grand Rapids to Include LID
- Establishing Measurable Goals and a Communication Strategy for Implementing LID in Grand Rapids

Elaine Sterrett Isely West Michigan Environmental Action Council

www.wmeac.org

1007 Lake SE Grand Rapids, MI 49504 616-451-3051

esisely@wmeac.org

